Pankanin/Leigny

APPENDIX E	
MODEL WORKSHEETS	US EPA RECORDS CENTER REGION 5
	514557
SILE Name: Relly-TAR Chemical	<u>Co.</u>
Sile Name: Reilly-TAR Chemical Location: St. Louis Park MN	
EPA Region:	
Person(s) in Charge of the Site: Jack BR	AUN Federa OSC
	guson-MPCA
	J
Name of Reviewer: JACK BRAUN/Rich	Feeguson
Site Overall Score: 59./4	
General Description of the Site:	
(For example: landfill, surface impoundment, pile, container; types of	f wastes: location of the site:
contamination route of major concern; types of information needed	
1/ole that this is a !	Correged
esternato, resulting in a	higher
score. This is also the	Estatos.
designated - Rich aria	sit site.
No. 1 Commence of the commence	



### **ROUTE - SURFACE WATER**

Rating Factor	Basis of Information		R	Site ating		Multiplier	Site Score	Maximum Possible Score
OBSERVED RELEASE (m) SW 1)								
Measured sevel of evidence of release			3		15	1	45	4
If the site score is zer go to step 2 otherwise, go to step								_
ROUTE CHARACTERISTICS <sup>1</sup> and Sav 2								
Site Slope and Terrain		0	•	3	3	1		3
1 Year 24 Hour Reinlett		•	•	3	3	1		3
Distance to Surface Wester			Ŀ	2	3	1		3
Flood Potential		•	Ŀ	<u>  • </u>	1:			6
· · · · · · · · · · · · · · · · · · ·	<del></del>					- Succession		7
<u> </u>		CO	NT/	MAN	ENT	2 mi 5w 5	<del></del>	
Contentions		Ŀ	Ŀ	13	1	,		3
4)		ENT	IAL	FOR	REL	EASE		, <del></del>
Multiply site score fro by site score from 3. The product is site rai for this route.		L					<u> </u>	**
5			RE	LEAS	E		·	····
Enter site score from	t or 4						45	46
6	WAST	E C	IAR	ACT	eris	IICS <sup>1,3</sup> per sw a		
Physical State		•	•	12	0	1	3	3
Toughy! Infoctionsness	•	٠	•	•	0	3	6	4
Persistence		۰	١	2	0	2	6	6
						Sutrotal	15	19
7 HAZARDOUS WASTE QUANTITY" was the factor of the first of the factor of								
Total Waste Customy	•	•	1	3	• 🕃	) ,	5	1
toy Superfund delinations excluding wests that as totally condained								
TARGETS' you saw da								
Surface Water Use		•	-		3	3	6	•
Population Served by Surface	<del></del>	+	<del>إ</del>	14	4	*	7	•
Water With Water Intelle William 3 Mars Dumetralm From Site		۰۱۰	1	19	•   •	•	0	30
6	*****					Substance Substa	10	4
A. Multiply 5 x 6 x 3		JE V	AT	er A	OUT	E SUBTOTAL	,750	151,875
8. Multiply [A.] by non of 0.64 and divide b	nalization factor y 1,000					0.64	21.6	97.2

#### **ROUTE - GROUND WATER**

	Rating Factor	Basis of Information	(		ite ting e Or	le)	Mu	ltiplier	Site Score	Maximum Possible Score
1		0	BSE	RVE	D RI	LE/	SE **	GW 1)		
	Measures Lovel at Endonce al Rosesso			•		<u> </u>		1	45	0
	If the site score is otherwise, go to s									
2	,	ROUT	E CH	IAR	CT	ERIS	TICS	re CW h		<del></del>
	Depin to Aquiller of Concern		•	ī	2	3	1	1		•
	Not Precipitation		•	•	3	3		1		3
	Permestrilly of Unesturated Zuna		•	•	7	•		,		•
				·			•	Subtotal		18
3			CO	NTA	NM	ENT	13 946	GW 3	<del></del>	
_	Compriment		•	•	*	3		• • • • • • • • • • • • • • • • • • •	<u> </u>	3
4		· POT	ENT	IAL	OR	REL	EASE			
		from 2 by site score from 3. rating for this route.						•		4
5			,	RELE	ASI	:				
	Enter site score in	om 1 or 4					-		45	45
6	WASTE CHARACTERISTICS 1.3 PAGENTAL						l .			
	J	WAST	E CI	RAH	ACT	ERIS	TICS1.	-MGM41	<del></del>	L
	Physical State	CRE OSOTINGOPS	E CI	HAR.	ACT	ERIS		angmai		,
_	Physical State Persistance	·		_		7			3	3
		CREOSOTINGOPS	•	•	,	0		1		<del> </del>
	Persistence Toxicity!	CREOSOTINGOPS TABLE D-2	0	,	2	0		1	3	•
	Persistence Toxicity!	CREOSOTINGOPS TABLE D-2 TRELE	0	1	2 2	000		1 2 2	3 6 6	6
7	Persistence Toxicity!	CREOSOTINGOPS TABLE D-2 TRELE	0	us v	2 2 /AST	000	UANTIT	1 2 3 Suplotes	3 6 6	6
7	Persistence Testicity: Infectiousness Total Waste Quentity	CREOSOTINGOPS TABLE D-2 TRELE	0	us v	2 2 /AST	D D D L	UANTIT	1 2 3 Subtotor Y <sup>1</sup> yorGW	3 6 6 /3	6 6
7	Persistence Testicity: Infectiousness Total Waste Quentity	CREOSOTINGOPS TABLE D-2 TRELE HAZAR	0	us v	2 2 2 (AST	0000	UANTIT	1 2 3 Subtotor Y <sup>1</sup> yorGW	3 6 6 /5	6 6
7	Persistence Testicity: Infectiousness  Total Waste Quantity Iby Superfund definitions go	CREOSOTINGOPS TABLE D-2 TRELE HAZAR	0	us w	2 2 2 (AST		UANTIY	1 2 3 Subtotor Y <sup>1</sup> yorGW	3 6 6 7	6 6
7	Persistence Toxicity: Infectiousness  Total Waste Quantity  By Superland definitions on  Bround Water Use Distance to Meaned Well (Juneary about	CREOSOTINGOPS TABLE D-2 TRELE HAZAR	0	US W	2 2 2 3 ETS	<u> </u>	UANTIT	1 2 2 Euphotes Y <sup>1</sup> yellGW	3 6 6 /5 7	15
7	Persistence Textory: Infectiousness Total Waste Quentity (by Superland definitions en	CREOSOTINGOPS TABLE D-2 TRELE HAZAR	0	us v	2 2 2 3 ETS	<u> </u>	UANTIT	1 2 3 Subtator Y <sup>1</sup> yorGw 1	3 6 6 7 5 9 9	15
7	Persistence Toxicity: Infectiousness Total Waste Quentity (by Superlund definitions on Ground Water Use Divisings to Naneaul Wolf Duserye shoul	CREOSOTINGOPS TABLE D-2 TRELE HAZAR	0	US W	2 2 2 3 ETS	<u> </u>	UANTIT	1 2 3 Subtator Y <sup>1</sup> yorGw 1	3 6 6 /5 7	15
8 3	Persistence Toxicity: Infectiousness Total Waste Quentity (by Superlund definitions on Ground Water Use Divisings to Naneaul Wolf Duserye shoul	CREOSOTINGOPS TABLE D-2 TRELE HAZAR	0	US V	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		UANTIT	Subtotal	3 6 6 7 5 9 9	8 8 15
7	Persistence Toxicity: Infectiousness Total Waste Quentity (by Superlund definitions on Ground Water Use Divisings to Naneaul Wolf Duserye shoul	CRE OS OTINO, OPS TABLE D-2 TRELE HAZAF Cluding wasto that is totally contact	0	US V	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		UANTIT	Suptotal Suptotal Y1 yellGw 1 S Subtotal	3 6 6 7 5 9 9	8 8 15

A name of term should be unlared when data is uneversible to late on appetic factor. A relate of 1 should be unlared when data is uneversible to 1 table in milliplicative dategory such as the weste quantity of consumment, A total of 8% messing date for the arrange one is affected which settled a set.

M the one has more than one type of containment lag, buriace impoundment, landfill, containent, consider all cases experieny and onter the coare from the moral case.

Their the the most nazardous weeks. Select the one with the highest subtolal score and enser that ocurs.

10	AGGREGATE	SITE RATING	
Route	Route Subtotal from 6, 8 or 9	Route Subtotal Squared	Maximum Possible Score
Ground Water	97.2	9447.84	(97.2)2 = 9447.84
Surface Water	21.6	466.56	(97.2)2 = 9447.84
Air	11 1 1 <b>0</b> 1 1	. 0	(97.2)2 = 9447.84
Fire and Explosion			(97.2)2 = 9447.84-
Direct Contact			(97-2) <sup>2</sup> ≈ 9447-84~,
Sum		9914.40	47239.2
Square root of Sum		99.57	168. 36217.35
Overall Score* = \( \sum \) 217.	× 100 ) 35- 168. 36	59.14	100

<sup>\*</sup>The overall score will be between 0 and 100. The Maximum Overall Score for a Site With Only One Exposure Route is 44.7.

# Reilly Tar and Chemical Site in St. Louis Park, Minnesota

Proposed Super Fund Site Pro	へりのぐせ
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Over the past five to ten years, over forty-five studies have been performed addressing the many issues associated with the Reilly-Ter Chemical Site. A summary report (Attachment #1) compiles much of this information.

From 1917 to 1970 Reilly-Tar Chemical Company refined coal tar and treated wood with creosote. They occupied an 80-acre site in St. Louis Park. Minnesota. (See Attachment #2). This is a western suburb of Minneapolis. (See Attachment #3). The City purchased the land in 1970, upon the closing and demolition of existing structures. The site is presently vacant land with a condominium constructed at one corner. Over the past several years, the many studies have identified the threat to public health, the contamination of groundwater and soil and a list of remedial actions needed to correct this dangerous situation. The main contaminant involved at the site is Polynuclear Aromatic Hydrocarbon. This group includes phenols and creosote. There is a heavily contaminated area of soil on the site itself, extending offsite in the area of surface drainage. During the years of operation, Reilly utilized several storage lagoons. The site of these lagoons is also highly contaminated. The complex groundwater situation has contributed to the contamination of groundwater within a two to three mile radius of the site, including several different aquifers.

Based on the above reports six remedial actions have been identified as needed to clean up the contaminants. These projects include:

		ESTIMATED WORST	CASE" RETITEDIAL COSTS
. 1. R	emove contaminated soil		193,000,000
2. 0	n-site deep well remedial act	ions	200,000
			109,400
. 3. W	ell Abandonment Program		40 420
4. D	rinking Water/Well Treatment	Program	10,188,000
5. B	arrier Well System		51,754,000
6. L	ong-Term Monitoring Program	<b>6</b>	16,609,400
W	ELL FIELD MEMT		

Total 271,860,800 (Oncludes/0% continjency)



Environmental Response, Compensation, and Liability Act (the "Superfund Act"), Public Law 96-510, seeking reimbursement of its response costs, abatement of the soil and ground water contemination, and natural resource damages. Reilly Tar responded to this letter on March 27, 1981, denying it had any liability under the Superfund Act.

The State and USEPA are continuing prosecution of claims against Reilly Tar under RCRA, the Superfund Act, and State law.

## ENFORCEMENT COORDINATION

A pending civil action against Reilly Tar in Minnesota District Court was amended by the State of Minnesota in 1978 to include claims based on newly discovered ground water contimination. The district court denied Reilly Tar's motions to dismiss the State complaint and to substitute the City of St. Louis Park as a defendant. Interlocutory review of these rulings was denied by the Minnesota Supreme Court. During 1979-80, substantial discovery by both sides took place.

In September, 1980, the United States filed an action against Reilly Tar in Federal court under the imminent and substantial endangerment provision of §7003 of RCRA, 42 U.S.C. §6973. The State moved to intervene as a pluintiff on the RCRA claim and to assert as pendent claims the State law violations already filed in Minnesota district court. The State's motion was granted in October, 1980. Reilly Tar subsequently moved for dismissal of the State and Federal claims under §7003. The parties are currently briefing that motion.

On February 25, 1981, EPA announced that the funds which are the subject of this papelication would be used for the Reilly Tar project and, on the same date, the United States Attorney for Minnesota served a demand letter on Reilly Tar relating to the activities proposed. On March 3, 1981, Reilly Tar responded to the demand letter, refusing to undertake any action and stating that the proposed activities were not authorized, appropriate, or necessary. On February 25, 1981, the USEPA through the Department of Justice served a demand letter on Reilly Tar under §112(a) of the Comprehensive

## Verification of Information

Over the past five to ten years, over forty-five different studies have been performed addressing the many issues associated with the Reilly-Tar Chemical Site.

During 1979-1980, U.S. EPA Region V Enforcement Division prepared a report summarizing the previous works. This summary report, which is located in Region V and Headquarters Superfund files, serves as the basis for verifying the information contained in the Mitre scoring. Of course, the complete studies are also available and documented.

In addition, an aerial photograph@ survey was performed by the U.S. EPA lab in Las Vegas. This photo analysis from 1937 to date can be used to verify distances, surface waters, and sensitive environmental areas.

Finally, our field Investigation Team (FIT) prepared a worst case analysis for the cost figures for cleaning up the site. This report, also in our files, was completed in late 1980. Prior to Federal involvement, the Minnesota Pollution Control Agency (MPCA) and the Minnesota Health Department (MHD) have been the main agencies involved in the project. The USEPA Enforcement Division has been involved in the project for several years and on September 4, 1960 joined MPCA and St. Louis Park in a law suit against Reilly-Tar.

Based upon a rather rapid, but comprehensive series of meetings between USEPA, MPCA, MHD, and other agencies it was determined that planning for three of the six remedial actions, discussed above, could be accelerated to meet the needs of the Superfund Program Requirements. This accelerated planning which will result in plans and specifications being ready by June 1, 1931 is dependent upon the availability of Headquarters Supplemental funds. The three remedial actions atune to accelerated planning include:

- 1. Well abandonment program
- 2. On-Site well remedial actions
- 3. Drinking water treatment project

